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01/18/24 • COVID › NEWS

Pfizer's COVID Vaccine Caused Autism-Like Behaviors in Offspring of Rats Vaccinated During Pregnancy

Pfizer's BNT162b COVID-19 vaccine administered to pregnant rats was associated with significant structural and biochemical changes in the brains of offspring and noticeable deficits in several behavioral domains. These effects may not directly relate to humans, and the study period did not allow for the possibility that these effects are reversible.

By Angelo DePalma, Ph.D.

12

COVID-19
VACCINE
5mg
Pfizer

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COVID-19 mRNA gene therapies ("vaccines") were likely the first injectable medicines recommended for pregnant women based on just 11 weeks of testing — even though according to the U.S. Food and Drug Administration, the average time required to test a drug for safety is eight-and-a-half years.

Now, a Turkish study in Neurochemical Research, by Mumin Alper Erdogan et al., suggests administering the mRNA vaccines to pregnant women may cause neurodevelopmental harm to their children.

Researchers studied the offspring of pregnant rats that received Pfizer's BNT162b2 mRNA vaccine. Specifically, they examined the rats' neurodevelopment-related behaviors, motor performance and changes in brain chemistry affecting neurodevelopment.

The researchers found very large differences in the expression of some proteins and genes, suggesting that these changes were responsible for the observed behavioral and performance deficits.

This effect was most obvious in male rats, which exhibited "pronounced autism-like behaviors" such as reduced social activity and repetitive behavior.

Males also showed impaired coordination and agility, and a large decrease in populations of certain brain cells.

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How the study was designed

Pregnant female rats received either a placebo shot of sterile salt water or a dose of the BNT162b2 vaccine. To ensure that all pups received the same level of maternal care investigators allowed mothers to keep only four offspring, which they nursed for 21 days.

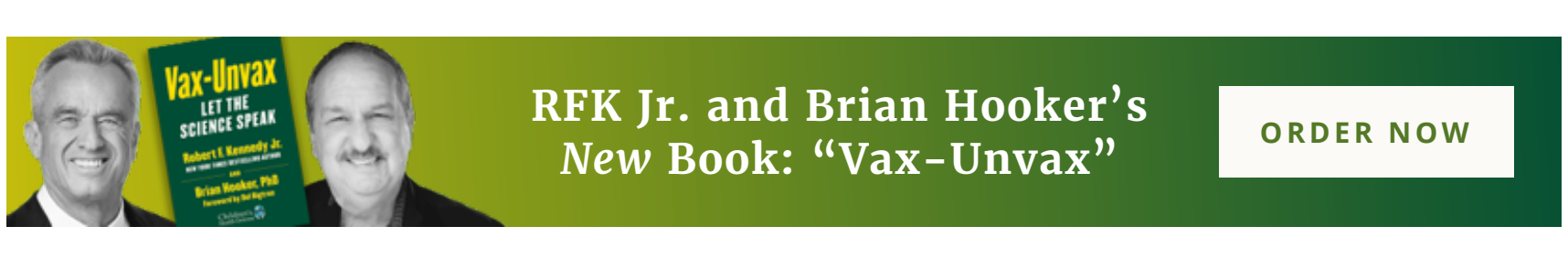
At the end of the 21 days, 41 young rats survived: 10 males and 10 females born to rats that received the placebo, and 13 males and 8 females born to rats that were vaccinated.

The test animals were separated by sex and treatment category (male or female, treated or untreated) and raised separately until they were 50 days old, when behavioral assessments began.

Rats underwent four standard rat-behavior tests to observe their preference for social versus nonsocial activity, time spent with strangers or unfamiliar objects, interest in exploration or "investigative" behavior and motor coordination.

After mice underwent behavioral tests researchers sacrificed groups of three or four mice from treated or untreated, male or female groups and extracted their brains to quantify differences in brain structure, type of nerve cells present, and levels of chemicals and genes associated with autistic behavior.

Throughout behavioral and laboratory testing researchers used statistics that allowed them to quantify differences between male-female and treated-untreated rats.



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Sex differences in some behaviors, not others

Investigators found no sex-associated differences in the combined results of behavioral measures of sociability or social novelty, which led them to report that "the vaccine's effects on these social behaviors were not differentially modulated by sex."

A result that came very close to statistical significance was uncovered for one measure — "novelty index," a term rarely used in rat studies.

Erdogan et al. defined the novelty index as "the time the rat spends in the chamber with 'stranger 2' … [divided] by the time spent in the chamber with the previously introduced 'stranger 1.'" In other words, this metric quantifies a rat's readiness to engage with strangers after an initial "stranger" experience.

However, when they combined the novelty index with other social interaction measures they observed no meaningful inter-sex differences.

Sex differences were found, however, in two other behavioral tests: "time to fall" and "sociability."

"Time to fall" or "latency time to fall" (the authors' terminology) measures the time a rat maintains its balance on rod rotating at different speeds — a measure of motor skills and endurance.

Among rats whose mothers received the BNT162b2 vaccine during gestation, males performed much worse than females. However, male-female differences disappeared within the placebo-treated group.

Additionally, when comparing the vaccinated versus placebo groups within each sex, the very large, statistically significant differences among males vanished in females.

A similar pattern emerged for other sociability measures.

Although no differences were observed for sex or mother's vaccination status in an animal's relative preference for a second "stranger" over the first stranger, male offspring of vaccinated mothers were far less likely to engage in the initial unfamiliar experience in the first place.

Animals in the vaccinated group also spent significantly less time with the second stranger than placebo-group rats.

On their behavioral test results, Erdogan et al. concluded:

> "While the vaccine's impact on social interaction parameters did not vary between sexes, motor performance was significantly affected in a sex-dependent manner in the vaccinated group. This underscores the importance of considering sex as a biological variable in vaccine research and highlights the need for targeted studies to further explore the implications of these sex-specific effects."

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Male rats in vaccine group had lower counts of specialized nerve cells associated with physical coordination

Male rats in the vaccine group showed significantly fewer cells in the CA1 and CA3 regions of the hippocampus compared with male offspring of unvaccinated mothers, and lower counts of Purkinje cells — specialized nerve cells — in the cerebellum. The authors did not specifically address the significance of these findings in their discussion.

In humans, Purkinje cells are responsible for physical coordination and affect some behavioral and emotional responses. The hippocampal A1 region governs spatial memory and the CA3 region is involved in seizures and neurodegeneration — but again, the authors did not discuss the meaning of these differences in the context of their study.

The researchers also looked for evidence of inflammation-mediating cytokines in rat brains, for example, several interleukins and tumor necrosis factor-alpha, but found no significant differences between the sexes or vaccine groups.

However, brain-derived neurotrophic factor (BDNF) levels were significantly lower in both male and female offspring of vaccinated mothers compared to offspring from placebo-treaded dams.

BDNF, which is present in the central nervous system, gut and other tissues, participates in neuronal survival and growth, controls the activity of neurotransmitters, and affects neuronal plasticity — an essential factor in learning and memory.

Gene expression showed similarly large sex and treatment effects. For example, expression of the mTOR gene was significantly higher and WNT expression significantly lower between vaccine group and placebo group males.

WNT genes in humans are precursors to 19 different, structurally related protein growth factors that govern cell activity and health during development. In adults, WNT-derived proteins keep the body's biological functions working properly, while inappropriately activated WNT has been implicated in cancer and other diseases.

mTOR (mechanistic target of rapamycin kinase) is a gene whose two protein products control protein production, cell growth and how cells respond to stresses like DNA damage and nutrient deprivation. Sirolimus, an mTOR blocker, prevents post-transplantation organ rejection.

Pregnant rats received adult human dose

Although some of the effects of maternal vaccination on gene and protein levels, particularly male-female differences, were highly significant, Erdogan et al. failed to argue convincingly for their connection to equally profound behavioral deficits.

For example, after describing hippocampal differences in detail in the "Results" section and referring to CA1 and CA3 regions as "designated regions for injury assessment" neither CA1 nor CA3 were mentioned in the discussion.

The authors did note how their results track male-female differences in human autism studies and the peril of extrapolating results from rat studies to humans.

The most glaring problem with Erdogan et al., however, was that pregnant rats received the same BNT162b2 dose — 30 micrograms — as is given to adult humans. Assuming an average adult human female weight of 170 pounds and a typical rat weight of about 1 pound, the rats received around 170 times the human dose.

Erdogan et al. did not mention dosage in their discussion either, despite medicine's long appreciation for the relationship between dose, response and safety, and existing evidence that even doubling the dose of BNT162b2 raises safety risks.

Finally, Erdogan did not clarify the timing of their interventions generally, or the relative scheduling of vaccine versus placebo administration. The first concern is minor because rats were dosed on day 13 — the midway point in their gestation period — and human females presumably could get the shot at any point.

The relative timing of vaccine and placebo administration in the study, however, was unclear. Erdogan et al. wrote that rats received the vaccine "on the thirteenth day of gestation" but placebo rats were dosed "on the same day of pregnancy."

This can mean either "same day as vaccinated rats," that is gestation day 13, or on the day they became pregnant. If the latter then their timing may have affected their results.

Erdogan et al. acknowledged that more studies were needed to confirm that these observations apply to humans, as "a comprehensive understanding of the risks and rewards of COVID-19 vaccination, especially during pregnancy, remains essential."

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Angelo DePalma, Ph.D.
Angelo DePalma, Ph.D., is a science reporter/editor for The Defender.

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Polly Green
16 days ago edited
I searched the CHD site for the case Children's Health Defense v FDA hearing held yesterday with Robert Barnes arguing for CHD. Please folks, donate to CHD.
The judge was just awful. Very pro vaccine. Barnes was thorough and valiant. Judge was trying to say CHD had no standing.
Here's an audio of the hearing.

see more

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GarySummers ➦ Polly Green
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BREAKING 'Sharing Is Caring'
"UNLOCKED: 'Spike Proteins' and 'Lipid Nanoparticles' are 'HIGHLY TOXIC' per Systemic Review of Scientific Literature"
"People who know about medicine and biology don't think about it (nanoparticles), which is why they say it's an 'mRNA vaccine.' Ignorance is bliss. They fell into an infinite hell."

January 16, 2024: modRNA, 'lipid' nanoparticles, and other gene editing technologies have 'epically failed at providing any human benefits for decades'. Since the unleashing of the mRNA COVID-19 injections on global civilians, 'these nanoparticle technologies have caused massive increases' in disease, disabilities, infertility and death in men, women, and children over the past 3 years.

""mRNA LNP injections should be 'stopped' immediately."
'Professor Yasufami Murakami, Tokyo University of Science'
https://karenkingston.subst...

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jann ➦ Polly Green
15 days ago
Yes, I'd like to see the American College of Ob/Gyn be sued for accepting Pfizer $ to recommend their shot. Apparently ACOG doesn't read research like this.

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notaluvvie
16 days ago
Why would anybody use anything from Pfizer, it's a pesticide and herbicide company? You're not weeds or mosquitoes are you?

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Mayfield
16 days ago
It's telling that we learn of this from a Turkish study, here in America, home of the free ?

NEJM would reject this on it's face. American neurologists would be scared to publish it since those corrupt state medical boards would revoke their license to practice medicine.

Thanks for sharing this, I'm glad they conduct real science in Turkey !

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GarySummers
14 days ago
"BREAKING" 'Sharing Is Caring'
'So Much EVIL, the CDC, FDA, HHS, need to be Flushed down the Toilet!'
"Nuremburg Trials #2.0 Need To Be Fast Tracked!"

"CDC Drafted "'Alert'" for "Myocarditis and COVID-19 Vaccines", but Never Sent It"
'How many Innocent Americans, and others have Died?'
CDC later sent alerts encouraging people to get vaccinated. ??????!

The U.S. Centers for Disease Control and Prevention (CDC) prepared to alert state and local officials to an emerging connection between heart inflammation and COVID-19 vaccines, but ultimately did not send the alert, according to a new document obtained by The Epoch Times.
https://www.theepochtimes.c...

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GarySummers ➦ GarySummers
13 days ago edited
"Boom-Shaka-Laka"

"The 'CDC Doctor Responsible' for "'Hiding Myocarditis'" and Promoting Vaccines"

The CDC withheld an "alert on myocarditis and mRNA vaccines" warning of the connection between heart inflammation and Covid-19 shots in May 2021, the Epoch Times has revealed.

The agency never published the alert; instead, its authors pushed vaccines on all age groups across the country.

"Dr. Demetre Daskalakis" was the 'author' of the draft. He gained minor celebrity status during the response to Covid and Monkeypox, appearing on magazine covers dressed in bondage and posting shirtless photos "demanding Americans wear mask".
https://brownstone.org/arti...

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GarySummers
15 days ago
'BREAKING'
"VA and the White House knew the Jabs would cause Myocarditis and Blood Clots"

What is REALLY A SIN, the "White House (Biden Admin) and the VA Knew" the 'Pfizer Jab' causes 'Myocarditis', 'Blood Clots', and never warned Veterans, or the Public!
'First Do No Harm?'

"'VA Never Disclosed Safety Signal for Pfizer Vaccine After Finding It'"

'The 'CDC and VA' had a strong responsibility to let the public know about the signal but chose to bury it in order to avoid causing 'vaccine hesitancy' by showing the actual risks of the COVID-19 vaccine...'
An email from May 13, 2021, that was obtained by the Epoch Times revealed that the 'U.S. Department of Veterans Affairs detected a signal for myocarditis and pericarditis' for the Pfizer-BioNTech COVID-19 vaccine.
https://headlineusa.com/va-...

"How many may have 'DIED' from the Jabs?"
"46 Pages FOIAed Emails Between 'CDC Leaders', 'Dr.
Fauci', 'Dr. Collins', and Biden, 'White House', NIH, HHS', Show They Knew About
Vaccine-Induced 'Myocarditis and Thrombotic Thrombocytopenia', a 'Blood
Clotting Disorder'. Emails Over 80% Redacted."
https://dailyclout.io/46-pa...

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mary
12 days ago
Interesting study but I there was no dose-dependent study done. And giving the rats 170 times the human dose is a problem.

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GarySummers
14 days ago edited
"Thinking"
"Brought To You By Pfizer"
https://imgur.com/ZO9dPym

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GarySummers
14 days ago
"EXCLUSIVE"
"CRAZY, What could go Wrong?" Was it even Properly Approved?
1.) "Denver Health medical team receives 'Ebola' vaccine"
According to hospital officials, the team became some of the first people to receive the "'live Ebola vaccine'" for preventative measures in case of a future outbreak.

DENVER — A few medical employees at Denver Health made history Monday as some of the first people to receive the "live Ebola vaccine" for preventative measures, the hospital said. ???
https://www.9news.com/artic...

2.) "EXCLUSIVE: America's frightening new bat lab: "$12m taxpayer-funded NIH research facility in Colorado" will import bats from Asia and infect them with deadly diseases - in project with China-linked scientists"

A new taxpayer-funded lab is being built in Colorado that will import bats from around the world and experiment on dangerous diseases, DailyMail.com can reveal.

The multi-million-dollar project is a collaboration between Dr Anthony Fauci's old department at the National Institutes of Health, Colorado State University (CSU) and EcoHealth Alliance (EHA), a controversial research group at the center of the Covid lab leak theory.
https://www.dailymail.co.uk...

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Stephen Simac ➦ GarySummers
12 days ago
apparently no lessons were retained from Batlab gone viral 1.0

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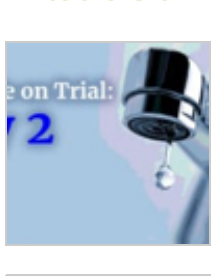
Fluoride on Trial, Day 2: Fluoride Poses Risks to Pregnant Women, Too

COVID Shots and Premature Births + Kids, Pneumonia and Antibiotics + More

Kids in New Jersey Schools Can Win Cash Prizes by Shilling for Vaccine Makers

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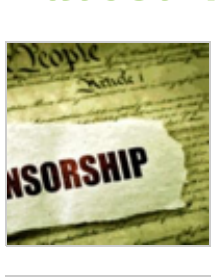
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Watch: An 'Epidemic of Heart Disease Deaths' in England, Says John Campbell

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